

Publications intéressantes

Dans Journal of Chemical Education

2023

- [Interactive Learning of Diffusion and the Diffusion Equation with Mathematical Software | Journal of Chemical Education](#)

2021



- [Applying Density Functional Theory to Common Organic Mechanisms: A Computational Exercise](#)
Jonathan P. Antle, Masashi W. Kimura, Stefano Racioppi, Corey Damon, Meredith Lang, Caitlyn Gatley-Montross, Laura S. Sánchez B., Daniel P. Miller, Eva Zurek, Adam M. Brown, Kellie Gast, and Scott M. Simpson, J. Chem. Educ. 2022, XXXX, XXX, XXX-XXX Publication Date: November 30, 2022 DOI: 10.1021/acs.jchemed.2c00935

2021



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- [Total Chemical Footprint of an Experiment: A Systems Thinking Approach to Teaching Rovibrational Spectroscopy](#) Paul D. Cooper, Jacob Walser, J. Chem. Educ. 2019, 96(12), 2947-2951 DOI: 10.1021/acs.jchemed.9b00405
- [Valorization of Waste Orange Peel to Produce Shear-Thinning Gels](#) Lucy S. Mackenzie, Helen Tyrrell, Robert Thomas, Avtar S. Matharu, James H. Clark, Glenn A. Hurst, J. Chem. Educ. 2019, 96(12), 3025-3029 DOI: 10.1021/acs.jchemed.8b01009
- [Helping Students Connect Interdisciplinary Concepts and Skills in Physical Chemistry and Introductory Computing: Solving Schrödinger's Equation for the Hydrogen Atom](#) Oka Kurniawan, Li Ling Apple Koh, Jermaine Zhi Min Cheng, Maggie Pee, J. Chem. Educ. 2019, 96(10), 2202-2207 DOI: 10.1021/acs.jchemed.9b00068
- [Teaching Entropy from Phase Space Perspective: Connecting the Statistical and Thermodynamic](#)

- [Views Using a Simple One-Dimensional Model](#) Dhritiman Bhattacharyya, Jahan M. Dawlaty, J. Chem. Educ. 2019, 96(10), 2208-2216 DOI: 10.1021/acs.jchemed.9b00134
- [Demystifying Mathematical Modeling of Electrochemical Systems](#) Lisa I. Stephens, Janine Mauzeroll, J. Chem. Educ. 2019, 96(10), 2217-2224 DOI: 10.1021/acs.jchemed.9b00542
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 - [Investigating Student Understanding of London Dispersion Forces: A Longitudinal Study](#) Keenan Noyes, Melanie M. Cooper, J. Chem. Educ. 2019, 96(9), 1821-1832 DOI: 10.1021/acs.jchemed.9b00455
 - [Bouncing Droplets: A Hands-On Activity To Demonstrate the Properties and Applications of Superhydrophobic Surface Coatings](#) Carolina Cionti, Tommaso Taroni, Daniela Meroni, J. Chem. Educ. 2019, 96(9), 1971-1976 DOI: 10.1021/acs.jchemed.9b00406
 - [Chemical Curiosity on Campus: An Undergraduate Project on the Structure and Wettability of Natural Surfaces](#) Anthony Katselas, Alice Motion, Chiara O'Reilly, Chiara Neto, J. Chem. Educ. 2019, 96(9), 1998-2002 DOI: 10.1021/acs.jchemed.9b00324
 - [Alternative Derivation of the Maxwell Distribution of Speeds](#) Francisco Rivadulla, J. Chem. Educ. 2019, 96(9), 2063-2065 DOI: 10.1021/acs.jchemed.9b00188
 - [Realistic Implementation of the Particle Model for the Visualization of Nanoparticle Precipitation and Growth](#) Antonella Di Vincenzo, Michele A. Floriano, J. Chem. Educ. 2019, 96(8), 1654-1662 DOI: 10.1021/acs.jchemed.9b00330
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 - [Developing and Using a Computer Simulation of Liquid-Vapor Transitions to Improve Students' Assimilation of Concepts Related to the Behavior of Real Gases](#) David Zorrilla, Jesús Sánchez-Márquez, Víctor García, Manuel Fernández, J. Chem. Educ. 2019, 96(8), 1646-1653 DOI: 10.1021/acs.jchemed.8b00939
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 - [PChem Challenge Game: Reinforcing Learning in Physical Chemistry](#) Tugba G. Kucukkal, Ajda Kahveci, J. Chem. Educ., 2019, 96 (6), pp 1187-1193 DOI: 10.1021/acs.jchemed.8b00757
 - [Effect of Chemical and Physical Modifications on the Wettability of Polydimethylsiloxane Surfaces](#) Carolyn L. Wanamaker, Brittany S. Neff, Azieta Nejati-Namin, Erin R. Spatenka, Mong-Lin Yang, J. Chem. Educ., 2019, 96 (6), pp 1212-1217 DOI: 10.1021/acs.jchemed.8b00814
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 - [Collaborative Learning Exercises for Teaching Protein Mass Spectrometry](#) Michelle L. Kovarik, Jill K. Robinson, J. Chem. Educ. 2019, 96 (5) pp905-911 DOI: 10.1021/acs.jchemed.8b00734 + [Biological Mass Spectrometry: Proteomics](#)

- [A Tale of Two Molecules: How the Heat Capacities of N₂\(g\) and F₂\(g\) Differ At High Temperature and Why Naïve Expectations Fail to Explain These Differences: A Spreadsheet Exercise for Physical Chemistry Students](#) Arthur M. Halpern and Robert J. Noll, *J. Chem. Educ.*, 2019, 96 (5), pp 926–935 DOI: 10.1021/acs.jchemed.9b00029
- [Creating and Experimenting with a Low-Cost, Rugged System to Visually Demonstrate the Vapor Pressure of Liquids as a Function of Temperature](#) Rodrigo Papai, Mayara Araujo Romano, Aline Rodrigues Arroyo, Bárbara Rodrigues da Silva, Bruno Tresoldi, Gabriela Cabo Winter, Julia Messias Costa, Maria Aparecida Freitas Santos, Matheus Damasceno Prata, and Ivanise Gaubeur, *J. Chem. Educ.*, 2019, 96 (2), pp 335–341 DOI: 10.1021/acs.jchemed.8b00381
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- [Using the Principles of Classical and Statistical Thermodynamics To Calculate the Melting and Boiling Points, Enthalpies and Entropies of Fusion and Vaporization of Water, and the Freezing Point Depression and Boiling Point Elevation of Ideal and Nonideal Aqueous Solutions](#) Arthur M. Halpern and Charles J. Marzzacco, *J. Chem. Educ.*, 2018, 95 (12), pp 2205–2211 DOI: 10.1021/acs.jchemed.8b00561
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